

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. **(Currently Amended)** A system for classifying objects using a computer, the system comprising:

an arrangement for formulating a query to identify objects having properties of interest;

an arrangement for selecting properties of the objects to compare with object properties included in the query; and

an arrangement for determining if based on the selected properties if object belongs in the query;

wherein the formulation of the query takes into account the desired form of output and the properties an object returned should possess.

2. **(Original)** The system of Claim 1, wherein the selection of properties of objects to compare with object properties included in the query is made determined in conjunction with a determination of the boolean expression of the properties.

3. **(Original)** The system of Claim 2, wherein the boolean expression is an optimized expression of the expression that best defines the query.

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(590.110)

4. **(Previously Presented)** The system of Claim 3, wherein the optimization of the boolean expression is accomplished by minimizing the error of the expression which defines the query.

5. **(Currently Amended)** A method for classifying objects using a computer, the method comprising the steps of:

identifying properties of objects;

formulating a query to identify objects having properties of interest;

selecting properties of the objects to compare with object properties included in the query; and

determining if based on the selected properties if the object belongs in the query;

wherein the formulation of the query takes into account the desired form of output and the properties an object returned should possess.

6. **(Original)** The method of Claim 5, wherein the selection of properties of objects to compare with object properties included in the query is made determined in conjunction with a determination of the boolean expression of the properties.

7. **(Original)** The method of Claim 6, wherein the boolean expression is an optimized expression of the expression that best defines the query.

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8. **(Previously Presented)** The method of Claim 7, wherein the optimization of the boolean expression is accomplished by minimizing the error of the expression which defines the query.

9. **(Currently Amended)** A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for classifying objects using a computer, said method comprising the steps of:

identifying properties of objects;

formulating a query to identify objects having properties of interest;

selecting properties of the objects to compare with object properties included in the query; and

determining if based on the selected properties if the object belongs in the query;

wherein the formulation of the query takes into account the desired form of output and the properties an object returned should possess.